

What is claimed is:

Sub
A,
1. A synthetic turf comprising:
a sub-surface layer;
a porous aggregate layer on said sub-surface layer;
a geotextile membrane on said aggregate layer;
a substantially non-compactable layer comprising sand and
resilient material on said geotextile membrane;
a pile fabric on said substantially non-compactable layer,
said pile fabric comprising a plurality of pile elements secured to
a backing; and
an infill for said pile fabric, said infill consisting
essentially of resilient particles.

2. The synthetic turf of claim 1, wherein said resilient
material in said substantially non-compactable is rubber embedded
in said sand.

2/. The synthetic turf of claim 1, wherein said resilient
particles comprise styrene-butadiene.

3/. The synthetic turf of claim 1, wherein said resilient
particles further comprise high density rubber.

4/. The synthetic turf of claim 1, wherein said pile elements
comprise polyethylene.

6. The synthetic turf of claim 1, wherein said backing
comprises a non-woven material.

B2
7. The synthetic turf of claim 6, wherein said non-woven
material is secured to a woven material having a layer of felt
thereon facing said non-woven material.

~~7~~ 8. The synthetic turf of claim 1, further comprising drainage means below said pile fabric for directing water away from said turf.

~~8~~ 9. The synthetic turf of claim ~~8~~ ⁷, wherein said drainage means comprises a plurality of perforated interconnected pipes.

~~9~~ 10. The synthetic turf of claim ~~9~~ ⁸, wherein said drainage means further comprises a plurality of holes in said backing.

11. A method of forming a synthetic turf on a sub-surface base, comprising:

forming a porous aggregate layer on said sub-surface base;
providing a geotextile membrane on said aggregate layer;
forming a substantially non-compactable layer comprising sand and resilient material on said geotextile membrane;

providing a pile fabric on said substantially non-compactable layer, said pile fabric comprising a plurality of pile elements secured to a backing and an infill consisting essentially of resilient particles.

~~16~~ ¹⁵ 12. The method of claim ~~11~~ ¹⁵, further comprising providing water drainage by burying a plurality of perforated interconnected pipes below said pile fabric.

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